

FEATURES

- 4-port 10/100 Layer 2 compact switch offering two 10/100 UTP ports and two Fast Ethernet fiber ports capable of connecting distances up to 58 km (36 mi.).
- Supports switched fiber daisy-chaining with 10/100 UTP drop-off/insertion.
- Supports 10Base-T/100Base-Tx, 100Base-Fx and IEEE 802.3 specifications.
- Delivers full wire-speed over all ports simultaneously.
- Fiber ports support multimode (MM) or single-mode (SM) fiber, SC or ST connectors.
- All UTP ports support 10/100 auto-sensing and half/full duplex auto-negotiation.
- Features port management.
- Features crossover switches on each UTP port for easy connection to other hubs and switches.
- Flow control per 802.3x specification.
- Available with external power adapter or internal power supply.
- Software-independent.
- Lifetime warranty.

DESCRIPTION

Designed for fiber-limited environments such as campuses, the FlexSwitch 600XC 2Fx+2U provides two UTP drop-off/insertion points for connections to other workstations, servers and switches, while offering the functionality of a switched fiber repeater via two fiber ports.

This switch features two 10/100 auto-sensing UTP ports that adjust the speed for attached 10Base-T and 100Base-Tx devices. In addition, the FlexSwitch 600XC 2Fx+2U automatically negotiates and provides full-duplex and half-duplex capability on UTP ports to boost bandwidth. These features allow a seamless migration path to newer technologies.

Fast Ethernet fiber ports are available with SC or ST connectors for multimode or single-mode fiber. Distances of 412 m (1,350 ft.) in half duplex and up to 58 km (36 mi.) in full duplex are supported.

Using its store-and-forward technology with 1-Mbyte buffer memory, the FlexSwitch 600XC 2Fx+2U supports a full wire-speed of 148,800 64-byte packets per second simultaneously on all ports.

Featuring port management, the FlexSwitch 600XC has the ability to configure UTP ports to a particular speed (10 or 100 Mbps) or duplex mode (half or full duplex) through the use of switches. This feature can be used when the connected device is unable to provide its own mode of operation to the switch.

As a Layer 2 switch, each port of the FlexSwitch 600XC 2Fx+2U is capable of MAC address learning and aging with support for up to 1,000 MAC addresses, as well as packet filtering and forwarding. The FlexSwitch 600XC checks all packets and discards illegal or corrupted packets thus providing fragment-free packet forwarding and enhancing the overall network performance.

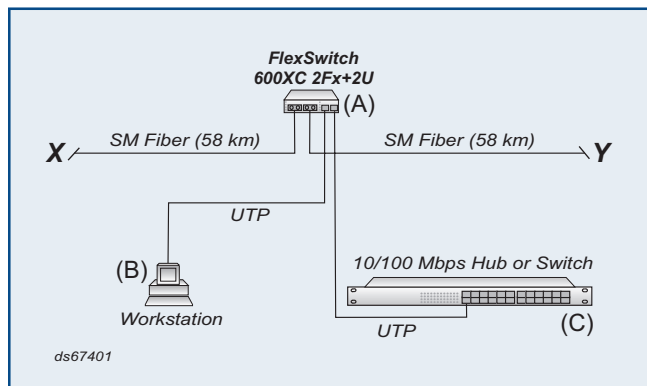
Using the 802.3x advanced flow control specification, the FlexSwitch 600XC controls the flow of data in order to ensure data integrity.

The FlexSwitch 600X 2Fx+2U is plug-and-play capable right out of the box, requiring no user configuration. It supports crossover MDI/MDI-X switches on both UTP ports for uplink applications, eliminating the need for crossed cables.

SAMPLE APPLICATION

Remote Workgroups

This application can be employed when a drop-off or insertion point is needed across a campus or large facility. In this application the FlexSwitch 2Fx+2U (A) is connecting two fiber segments using its switched fiber ports acting as a repeater. Since all fiber connections are switched and in full duplex, the distances can reach up to 58 km (36 mi.) utilizing single-mode fiber. The two UTP ports are used to connect a workstation (B) and a hub (C) creating an access point for this remote workgroup. Each copper connection is limited to the 100 m. (328 ft.) per IEEE 802.3 specification.



SPECIFICATIONS

- **Protocol:** IEEE 802.3
 - Ethernet 10Base-T
 - Fast Ethernet 100Base-Tx, 100Base-Fx
 - Flow Control 802.3x
- **Basic Features:**
 - MAC Addresses 1,000
 - Buffer size 1 MB
- **Connectors and Cables**
 - Twisted Pair UTP: RJ45, Category 5 (EIA/TIA 568)
 - Fiber: SC or ST
 - Multimode (MM): 50/125, 62.5/125, 100/140 μm
 - Single-Mode (SM): 9/125 μm

- **Supported Distances:**

Ethernet	Half-Duplex	Full-Duplex
Twisted Pair UTP:	100 m / 328 ft.	100 m / 328 ft.
Fast Ethernet	Half-Duplex	Full-Duplex
Twisted Pair UTP:	100 m / 328 ft.	100 m / 328 ft.
Fiber:		
MM/Lx, 1300 nm:	412 m / 1,350 ft.	2 km / 1.2 mi.
SM/Lx, 1300 nm:	412 m / 1,350 ft.	28 km / 16.8 mi.
SM/Lx/LH, 1300 nm:	412 m / 1,350 ft.	58 km / 36 mi.
- **LED Indicators**

Function	Color & Description
UTP:	Green/yellow
Yellow On:	10
Green On:	100
Flashing:	Activity detected
Fiber:	Link/activity green
Off:	No link detected
Green On:	Link detected
Flashing:	Activity detected
Full/Half Duplex	
Off:	Set to half duplex
On:	Set to full duplex
- **Dimensions/Weight:**

Models 67xx: (External power supply)	W:6.0"xD:4.0"xH:1.75" / 0.5 lb.
Models 65xx: (Internal power supply)	W:6.5"xD:8.0"xH:1.75" / 1.5 lb.
- **Power:**

External:	9 VDC/1.2 Amp
Internal:	110/230 VAC, 50/60 Hz, 300mA
- **Temperature:**

Operating	0 to 50 degrees C
Storage	-40 to 75 degrees C
- **Humidity:** 0-90% (non-condensing)

ORDERING INFORMATION

Model Description

Models with External Power Adapter (110V, US Standard):

6740-0 2@100 MM/SC/Lx, 1300 nm Fiber + 2@10/100 UTP
 6740-2 2@100 SM/SC/Lx, 1300 nm Fiber + 2@10/100 UTP
 6740-3 2@100 SM/SC/Lx/LH, 1300 nm Fiber + 2@10/100 UTP
 6741-0 2@100 MM/ST/Lx, 1300 nm Fiber + 2@10/100 UTP
 6741-2 2@100 SM/ST/Lx, 1300 nm Fiber + 2@10/100 UTP

Models with Internal Power Supply (110/230V, Universal):

6540-0 2@100 MM/SC/Lx, 1300 nm Fiber + 2@10/100 UTP
 6540-2 2@100 SM/SC/Lx, 1300 nm Fiber + 2@10/100 UTP
 6540-3 2@100 SM/SC/Lx/LH, 1300 nm Fiber + 2@10/100 UTP
 6541-0 2@100 MM/ST/Lx, 1300 nm Fiber + 2@10/100 UTP
 6541-2 2@100 SM/ST/Lx, 1300 nm Fiber + 2@10/100 UTP

Note: MM = Multimode SM = Single-mode
 LH = Long-haul

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